Insert RTD devices into proper terminal of the ISCO 4210 Flow Meter.

The yellow (which signifies power) will be on and blinking

The green should come on and be blinking (this signifies data transfer in progress)

The green light will become solid if the data transfer is completed.

If the red light come on at any time during the transfer this would indicate that the RTD is full with data.

-If this occurs simply empty the device by loading the data into the Flowlink program and then attempt the data transfer again.

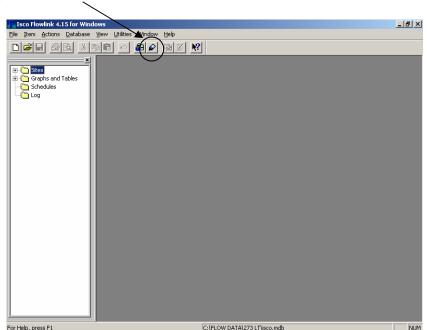
Once the data transfer has been completed the RTD can then be uploaded into the Flowlink software.

WARNING! By default the file name will be the same. If you want to keep the previous months raw data, which would be wise, rename the site file prior to uploading the data from the RTD.

First attach the terminal cable into Com Port 1 of the computer and then attach to the RTD.

Open Flowlink and begin uploading the data.

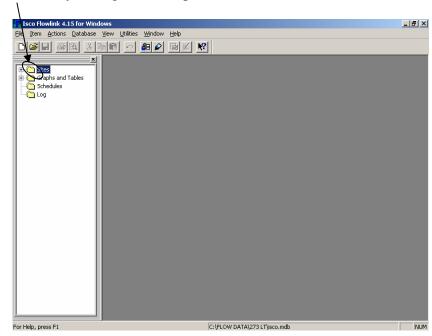
This can be done by either clicking on the file option and then to RTD transfer or by simply clicking on the <u>RTD</u> icon on the tool bar.



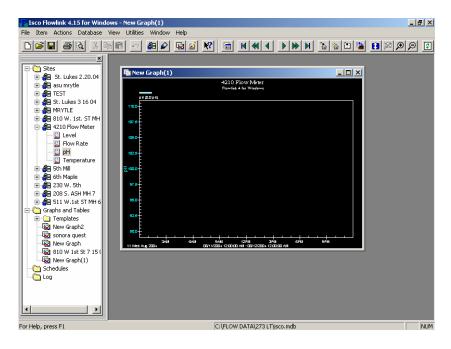
Again the yellow and green lights will both be blinking. When the green light stops blinking and remains solid the up load has been completed. **Note** - The data has been saved in an Access (mdb) format and can be exported as such.

Then open the uploaded file.

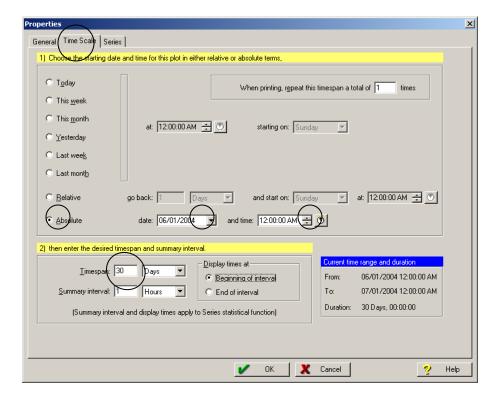
This can be done by going to the sidebar on the left side of the screen, expanding the "Site" folder and then selecting the appropriate site folder. The default name maybe 4210 Flow Meter. Verify through site setup.



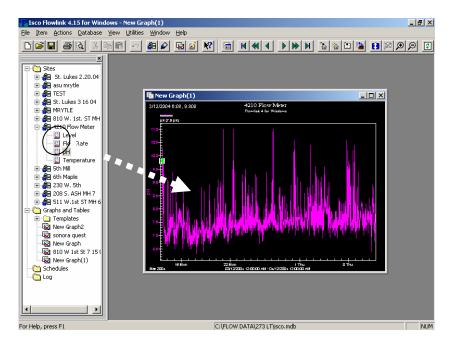
Once the correct site folder has been expanded double left click on the pH file. This will open a graph.



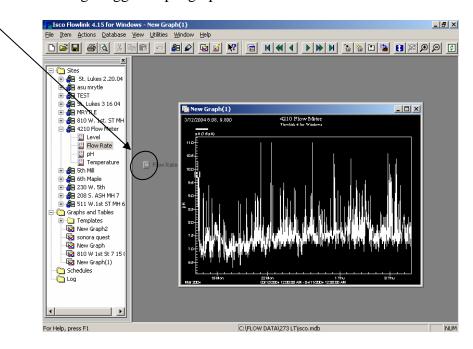
Right click on the graph and then select "Properties" or Press "Alt" and "Enter" to open the Properties window. Select the "Time Scale" tab. Click on "Absolute" and then set the time frame for the data to report by using the calendar feature to select the correct month. Set the beginning time as 12:00:00 AM. Next select the length of time for the report; i.e. days in the month.



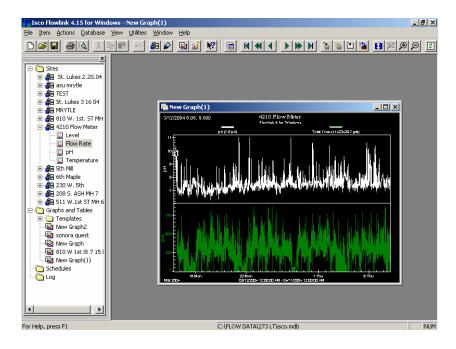
Once the graph is open the flow rate data can be opened by right clicking on the flow rate file and the drag it onto the graph.



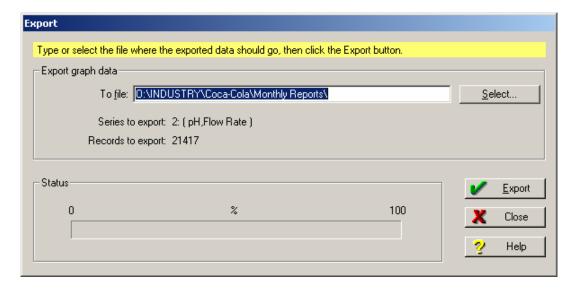
Flow rate file being dragged to pH graph:



The graph will now contain the pH and the flow rate data which can now be exported into a comma separated format (*.csv) which can be opened with Excel.



This is done by going to the file menu and clicking on the export option. Then name the file as Monthly pH data month then year (ex. pH datamar2004) and save it as a CSV file (ex. pHdatamar2004.csv). Then click export and the file will export.



Once opened in an excel format the data must be reviewed and violations summary must be prepared. This summary needs to include each incident of non-compliance.

Date, time, flow and pH must be chronological reported for each 2 minute reading that shows on the excel data sheet. Also the industry must submitted an explanation for any periods in which there is no recorded data and a list of dates and times that any O&M was performed. This is to include but not limited to any times in which the pH meter was calibrated.

At this point the data must either be emailed to the City of Tempe Investigator assigned to your industry or burned onto a CD available for pickup by City staff. Due to security issues please check with the Environmental staff on which format to use when sending by e-mail. Large files, greater than 3 MB will need to be compressed.

Item required each month are as follow:

- All data downloaded from the ISCO 4210 flow meter in an excel or CSV format.
- A monthly summary of incidents of non-compliance in an excel format.
- An explanation for any periods in which no data was recorded.
- List of meter calibration days and times
- Data shall be submitted once per month per month. As stated in permits with pH monitoring requirements data and reports must be received (or post marked if mailed) by City of Tempe no later the 7th day of month following the required monitoring.